

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A reactor containment vessel of a boiling water reactor configured to contain a reactor pressure vessel, the reactor pressure vessel being directly connected to at least one main steam pipe, the reactor containment vessel comprising:

(a) an upper drywell including:

a first side and a second side which is opposite to the first side, the first side having an inner surface, the second side having an inner surface;

a main-steam-line penetration point disposed on the first side of the reactor containment vessel, wherein the at least one main steam pipe of the boiling water reactor penetrates the reactor containment vessel at the main-steam-line penetration point; and

(b) a suppression pool of annular shape horizontally surrounding the reactor pressure vessel, the suppression pool being disposed under the upper drywell, the suppression pool having a wall which is continuous to the inner surface of the upper drywell;

wherein the distance between an outer surface of the reactor pressure vessel and the inner surface of the first side is longer than a distance between the outer surface and the inner surface on the second side.

2. (Previously Presented) The reactor containment vessel according to Claim 1, wherein the reactor containment vessel has a non-circular horizontal cross-sectional shape;

the reactor containment vessel has a first horizontal axis and a second horizontal axis which is perpendicular to the first axis;

the span of the reactor containment vessel in the first axis is longer than the span in the second axis; and

the main-steam-line penetration point is disposed in a direction which is close to one end of the first axis.

3. (Previously Presented) The reactor containment vessel according to Claim 1, further comprising:

a lower drywell disposed below the reactor pressure vessel; and
a wetwell horizontally surrounding the lower drywell; wherein
the suppression pool of annular shape is contained in the wetwell.

4. (Original) The reactor containment vessel according to Claim 1, further comprising:
an air conditioner for the reactor containment vessel disposed outside of the reactor
containment vessel.

5. (Original) The reactor containment vessel according to Claim 1, further comprising:
an air conditioner for the reactor containment vessel disposed outside of the reactor
containment vessel, wherein the air conditioner is communicated to the reactor containment
vessel via an air-conditioner duct with an air-conditioner-duct isolation valve.

6. (Previously Presented) The reactor containment vessel according to Claim 1, further
comprising:

a feed water pipe connected to the reactor pressure vessel; and
a feed-water-line penetration point, wherein the feed water pipe penetrates the reactor
containment vessel at a feed-water-line penetration point, the feed-water-line penetration
point is disposed on the first side of the reactor containment vessel, and the main-steam-line
penetration point and the feed-water-line penetration point are arranged in substantially a
same level.

7. (Previously Presented) The reactor containment vessel according to Claim 1, further
comprising:

a lower drywell disposed below the reactor pressure vessel;
a wetwell horizontally surrounding the lower drywell;
wherein the suppression pool is contained in the wet well; and
an access tunnel penetrating the suppression pool, wherein the access tunnel is able to
communicate between the lower drywell and outside of the reactor containment vessel on the
second side of the reactor containment vessel.

8. (Currently Amended) The reactor containment vessel according to Claim 1, ~~further comprising:~~

~~an wherein the upper drywell containing contains~~ an upper part of the reactor pressure vessel, wherein the main steam pipe is disposed between the reactor pressure vessel and the main-steam-line penetration point;

the reactor containment vessel further comprising:

a lower drywell disposed below the reactor pressure vessel;

a wetwell horizontally surrounding the lower drywell and having the suppression pool;

and

a plurality of vent pipes communicating the upper drywell and the wetwell, the vent pipes being distributed biased to the first side of the reactor containment vessel.

9. (Original) The reactor containment vessel according to Claim 1, further comprising a fuel storage pool configured to contain fuel assemblies taken out of the reactor pressure vessel when the boiling water reactor is out of operation, wherein the fuel storage pool is disposed on the second side of the reactor containment vessel.

10. (Canceled)

11. (Original) The reactor containment vessel according to Claim 1, wherein the reactor pressure vessel has a first circular horizontal cross-sectional shape, and the reactor containment vessel has a second circular horizontal cross-sectional shape which eccentrically surrounds the first circular horizontal cross-sectional shape.